	Application No.	Applicant(s)	
	09/787,997	XU, WEN	
Notice of Allowability	Examiner	Art Unit	
	Dac V. Ha	2634	
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet wi (OR REMAINS) CLOSED in or other appropriate communication is:	th the correspondence address n this application. If not included unication will be mailed in due course.	
1. \boxtimes This communication is responsive to <u>amendment filed on some some some some some some some some</u>	<u>07/23/04</u> .		
2. The allowed claim(s) is/are 11-22, renumbered as 1-12, re	espectively.		
3. \boxtimes The drawings filed on <u>23 March 2001</u> are accepted by the	Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application	on No	n the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.		
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OF
6. CORRECTED DRAWINGS (as "replacement sheets") must	st be submitted.		
(a) 🔲 including changes required by the Notice of Draftspers	son's Patent Drawing Review	v (PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner'. Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on t he header according to 37 CF	ne drawings in the front (not the back) o R 1.121(d).	f
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	_	formal Patent Application (PTO-152) ummary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No.	Paper No./Mail Date 7.	
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	8. 🕅 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. Other		
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DETAILED ACTION

1. This office action is in response to amendment filed on 07/23/04.

Allowable Subject Matter

- 2. Claims 11-22 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter:

The present invention relates to method for coding information, especially for digital transmission or storage. Previous methods for source encoding compress the source signal to form symbols, which are then mapped to binary code words in accordance with an allocation rule having been selected randomly. Basic premises of information theory is that source encoding and channel encoding can be carried out independently of one another, however, in practical application, this is not true. Thus, the source encoding output signal exhibits a residual redundancy. Therefore, the encoding is not optimal. The present invention provides an optimum encoding result by first sorting the symbols in accordance with their relative frequency and allocating the natural binary code to the sorting result. Particularly, upon further consideration, the examiner agrees with the applicant in the REMARKS filed on 07/23/04 that prior art of record (closest references Van Den Berghe et al. - US 6,233,713 and Hauck - US 4,626,829), taking individually or collectively, fails to fairly teach method for coding information including "sorting said symbols dependent on their respective probability of occurrence, and allocating a natural code words to said symbols to obtain sorted symbols, and allocating a natural binary code to said sorted symbols", as claimed in

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> independent claims 11 and 21 (claims 12-20, 22 depend therefrom). Thus, claims 11-22 are found to be novel and unobvious over prior art of record.

> Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-273-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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